

Problem Books in Mathematics

Loren C. Larson

**Problem-Solving
Through
Problems**



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Loren C Larson Problem Solving Through Problems

Zhe Xu

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Loren C Larson Problem Solving Through Problems:

Problem-Solving Through Problems Loren C. Larson, 1983-08-08 This is a practical anthology of some of the best elementary problems in different branches of mathematics Arranged by subject the problems highlight the most common problem solving techniques encountered in undergraduate mathematics This book teaches the important principles and broad strategies for coping with the experience of solving problems It has been found very helpful for students preparing for the Putnam exam

Exercises in Number Theory D.P. Parent, 2013-03-09 After an eclipse of some 50 years Number Theory that is to say the study of the properties of the integers has regained in France a vitality worthy of its distinguished past More and more researchers have been attracted by problems which though it is possible to express in simple statements whose solutions require all their ingenuity and talent In so doing their work enriches the whole of mathematics with new and fertile methods To be in a position to tackle these problems it is necessary to be familiar with many specific aspects of number theory These are very different from those encountered in analysis or geometry The necessary know how can only be acquired by studying and solving numerous problems Now it is very easy to formulate problems whose solutions while sometimes obvious more often go beyond current methods Moreover there is no doubt that even more than in other disciplines in mathematics one must have exercises available whose solutions are accessible This is the objective realised by this work It is the collaborative work of several successful young number theorists They have drawn these exercises from their own work from the work of their associated research groups as well as from published work

Index to Mathematical Problems, 1980-1984 Stanley Rabinowitz, 1992 A compendium of over 5 000 problems with subject keyword author and citation indexes

Which Way Did the Bicycle Go? Joseph D. E. Konhauser, Dan Velleman, Stan Wagon, 1996 The best problems selected from over 25 years of the Problem of the Week at Macalester College

An Outline of Set Theory James M. Henle, 2012-12-06 This book is designed for use in a one semester problem oriented course in undergraduate set theory The combination of level and format is somewhat unusual and deserves an explanation Normally problem courses are offered to graduate students or selected undergraduates I have found however that the experience is equally valuable to ordinary mathematics majors I use a recent modification of R L Moore's famous method developed in recent years by D W Cohen 1 Briefly in this new approach projects are assigned to groups of students each week With all the necessary assistance from the instructor the groups complete their projects carefully write a short paper for their classmates and then in the single weekly class meeting lecture on their results While the emphasis is on the student the instructor is available at every stage to assure success in the research to explain and critique mathematical prose and to coach the groups in clear mathematical presentation The subject matter of set theory is peculiarly appropriate to this style of course For much of the book the objects of study are familiar and while the theorems are significant and often deep it is the methods and ideas that are most important The necessity of reasoning about numbers and sets forces students to come to grips with the nature

of proof logic and mathematics In their research they experience the same dilemmas and uncertainties that faced the pioneers

Algebraic Logic Semen Grigor'evich Gindikin,1985-10-14 The popular literature on mathematical logic is rather extensive and written for the most varied categories of readers College students or adults who read it in their free time may find here a vast number of thought provoking logical problems The reader who wishes to enrich his mathematical background in the hope that this will help him in his everyday life can discover detailed descriptions of practical and quite often not so practical applications of logic The large number of popular books on logic has given rise to the hope that by applying mathematical logic students will finally learn how to distinguish between necessary and sufficient conditions and other points of logic in the college course in mathematics But the habit of teachers of mathematical analysis for example to stick to problems dealing with sequences without limit uniformly continuous functions etc has unfortunately led to the writing of textbooks that present prescriptions for the mechanical construction of definitions of negative concepts which seem to obviate the need for any thinking on the reader's part We are most certainly not able to enumerate everything the reader may draw out of existing books on mathematical logic however

Exercises in Modules and Rings T.Y. Lam,2009-12-08 The idea of writing this book came roughly at the time of publication of my graduate text Lectures on Modules and Rings Springer GTM Vol 189 1999 Since that time teaching obligations and intermittent intervention of other projects caused prolonged delays in the work on this volume Only a lucky break in my schedule in 2006 enabled me to put the finishing touches on the completion of this long overdue book This book is intended to serve a dual purpose First it is designed as a problem book for Lectures As such it contains the statements and full solutions of the many exercises that appeared in Lectures Second this book is also offered as a reference and repository for general information in the theory of modules and rings that may be hard to find in the standard textbooks in the field As a companion volume to Lectures this work covers the same mathematical material as its parent work namely the part of ring theory that makes substantial use of the notion of modules The two books thus share the same table of contents with the first half treating projective injective and flat modules homological and uniform dimensions and the second half dealing with noncommutative localizations and Goldie's theorems maximal rings of quotients Frobenius and quasi Frobenius rings concluding with Morita's theory of category equivalences and dualities

Acta Scientiarum Mathematicarum ,1983 *Unsolved Problems in Geometry* Hallard T. Croft,K. J. Falconer,Richard K. Guy,1991 For mathematicians or others who wish to keep up to date with the state of the art of geometrical problems this collection of problems that are easy to state and understand but are as yet unsolved covers a wide variety of topics including convex sets polyhedra packing and covering tiling and combinatorial problems Annotation copyrighted by Book News Inc Portland OR

Crux Mathematicorum ,1992 Problem solving journal at the senior secondary and university undergraduate levels for those who practice or teach mathematics Primarily educational in purpose it also serves those who read it for professional cultural and recreational reasons

Mathematics Magazine ,1989 *The Virginia*

Mathematics Teacher, 1986 ***Crux Mathematicorum with Mathematical Mayhem***, 1999 Problem solving journal at the senior secondary and university undergraduate levels for those who practice or teach mathematics Primarily educational in purpose it also serves those who read it for professional cultural and recreational reasons *Publicationes mathematicae* Kossuth Lajos Tudományegyetem. Matematikai Intézet, 1984 *Polynomials* Edward Barbeau, 1989 This book provides a backdrop for study in calculus modern algebra numerical analysis and complex variable theory through examples Includes some 300 problems drawn from journals contests and examinations to test understanding ingenuity and skill

Forthcoming Books Rose Arny, 1984 ***The Mathematical Gazette***, 1984 ***Analele științifice ale Universității "Al. I. Cuza" din Iași*** Universitatea "Al. I. Cuza" din Iași, 1984 *Mathematics Education in Secondary Schools and Two-year Colleges* Paul J. Campbell, Louise S. Grinstein, 1988 ***A London Bibliography of the Social Sciences***, 1931

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